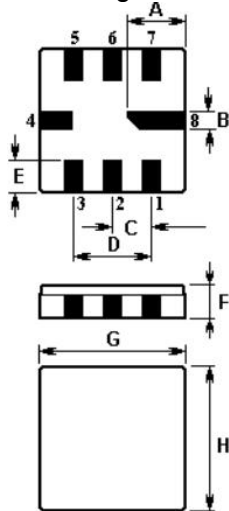


## SAW FILTER

Part Number : VTF43325

The VTF43325 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic QCC8C case applied in remote control receivers.

### 1. Package Dimension (QCC8C)



Pin	Connection
1	Input Ground
2	Input
5	Output
6	Output Ground
3, 7	to be Grounded
4, 8	Case Ground

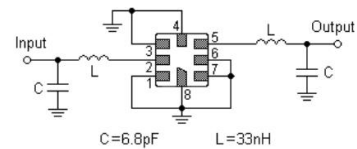
Sign	Data (unit: mm)	Sign	Data(unit:mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

### 2. Marking

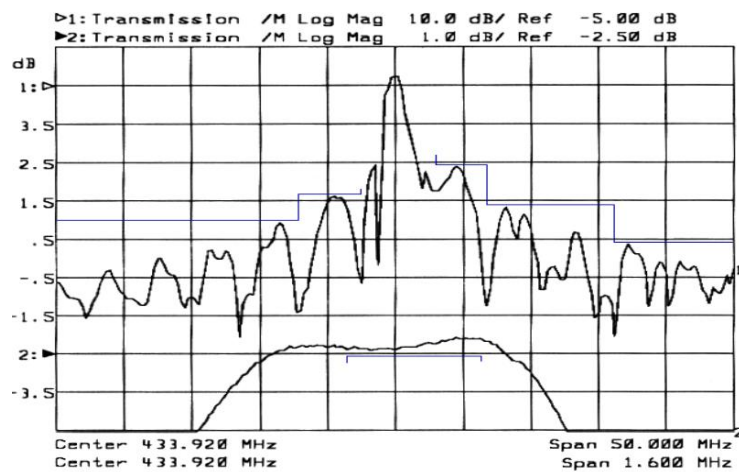
VTF  
43325

Laser Marking

### 3. Test Circuit



### 4. Typical Frequency Response



## 5. Performance

### 5-1. Maximum Ratings

Rating		Value	Unit
Source Power	$P_s$	10	dBm
DC Voltage	$V_{DC}$	0	V
Storage Temperature Range	$T_{stg}$	-45 to +120	°C
Operating Temperature Range	$T_A$	-45 to +120	°C

### 5-2. Electronic Characteristics

Reference temperature:  $T_A = 25^\circ \text{C}$

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)	$f_c$		433.920		MHz
Insertion Loss 433.80 .... 434.12 MHz	$IL$	--	2.5	4.0	dB
3dB Pass bandwidth (relative to $IL$ )	$BW_3$	--	950	--	kHz
Passband (relative to $IL$ ) 433.715 .... 434.205 MHz		--	1.0	2.0	dB
433.675 .... 434.245 MHz		--	1.0	3.0	dB
433.615 .... 434.305 MHz		--	1.5	6.0	dB
Relative Attenuation (relative to $IL$ ) 10.00 .... 400.00 MHz	$\alpha_{rel}$	40	50	--	dB
400.00 .... 426.72 MHz		32	38	--	dB
426.72 .... 431.42 MHz		20	30	--	dB
436.92 .... 440.52 MHz		15	24	--	dB
440.52 .... 450.00 MHz		28	35	--	dB
450.00 .... 600.00 MHz		35	45	--	dB

**ⓘ CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!**

1. The frequency  $f_c$  is defined as the midpoint between the 3dB frequencies.
2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with  $VSWR \leq 1.2:1$ . The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency,  $f_c$ . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
7. For questions on technology, prices and delivery please contact our sales offices or e-mail [info@vtorch.ca](mailto:info@vtorch.ca)